

At Louvain-la-Neuve - 120 credits - 2 years - Day schedule - In French

Dissertation/Graduation Project : **YES** - Internship : **optional**

Activities in English: **YES** - Activities in other languages : **NO**

Activities on other sites : **NO**

Main study domain : **Sciences agronomiques et ingénierie biologique**

Organized by: **Faculty of bioscience engineering (AGRO)**

Programme acronym: **SAIV2M** - Francophone Certification Framework: 7

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SAIV2M - Introduction

Introduction

Introduction

Master [120] in Agriculture and Bio-industries develops

- the ability to analyze and diagnose agronomic problems
- ability to understand multi-scale and multi-disciplinary processes
- the ability to manage integrated projects in dialogue with other specialists.

2. A professional focus of compulsory courses for 30 ECTS credits (microeconomic theory, agricultural and trade policy, quantitative methods)
3. An option with optional courses for 30 ECTS credits that can be grouped into five subject areas:
 - i. agri-food and trade policy (at UCL and partner universities)
 - ii. development policy at UCL (at UCL and partner universities)
 - iii. environmental and natural resource policy (at partner universities)
 - iv. agribusiness and market analysis (at partner universities)
 - v. market and consumer research (at partner universities)
4. A set of supplementary courses, including a language course, for 20 ECTS credits.

The language of instruction and examination is English for all the courses at SLU, UAlberta, UBonn and UCSC, and for most of the courses at UCL and UPC, but in Spanish for most of the courses at PUC. Examination can be organized in English at all partners.



SAIV2M - Teaching profile

Learning outcomes

By the end of this Master's programme, the graduate student is:

1. aware of the economic, social and environmental dimensions of the performance and competitiveness of the agricultural and food sectors and other profit (market) and non-profit (non-market) activities in rural areas,
2. able to understand the fundamentals of recent economic theory as well as its strengths and weaknesses,
3. able to use and apply adequate methods and tools to address and analyse socio-economic and environmental problems that are observed or anticipated in the agricultural and food sectors and rural areas in different development contexts,
4. able to use complementary approaches from other disciplines when needed,
5. able to perform sound quantitative economic analysis and anticipate possible effects of policy and regulation reforms,
6. able to interpret results and derive policy implications and recommendations,
7. able to draw from European experience and expertise in designing and evaluating policy and regulatory reforms given the economic, social, environmental and ethical dimensions of the issues facing societies expressing structural change, and
8. able to communicate their methods and results to both specialised and non-specialised audiences, in at least two European languages.

The main objective of this Master's programme is that graduates be qualified to use and apply adequate methods to analyse socio-economic problems, formulate policy recommendations and understand the risks and consequences of any given economic policy measures, especially those oriented to the agricultural and food sector, rural areas as well as natural resources and their environment. In particular, graduates are expected to be able to use and develop quantitative methods to perform rigorous socio-economic and environmental assessments of these public policies, and provide sound and relevant policy recommendations to a better sustainable development of r9.9630127 -ecr 21 ano0 -1 0 309.96Onto curasfulable to and objectiaster's 979 he graduateected to student is:

				Year	
				1	2
⌘ LBRAI2208	Firms and Markets : Strategic Analysis	Frédéric Gaspart	EN [q1] [30h] [5 Credits]  > French-friendly		x
⌘ LBRAI2210	Microeconomics of Development	Frédéric Gaspart	EN [q1] [30h] [4 Credits]  > French-friendly	x	x
⌘ LBRAI2212	Economics of Rural Development				

Year


○ LBRES2204	Integrated water management of water resources	Marnik Vanclooster (coord.)	PR [q1] [22.5h+22.5h] [4 Credits]	1	2
				x	

○ 30 crédits minimum à choisir parmi les unités d'enseignement suivantes : (30 credits)

⌘ LANGL2480	English Communication Skills for Bioengineers	Ahmed Adriouèche Ariane Halleux Lucille Meyers Philippe Neyt Charlotte Peters (coord.)
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**PROFESSIONAL FOCUS: GEO-INFORMATION SCIENCE AND
EARTH OBSERVATION FOR ENVIRONMENTAL MODELLING AND
MANAGEMENT [30.0]**

PROFESSIONAL FOCUS: SOIL SCIENCE [30.0]

- Mandatory
 - ✘ Optional
 - △ Not offered in 2024-2025
 - ⊖ Not offered in 2024-2025 but offered the following year
 - ⊕ Offered in 2024-2025 but not the following year
 - △ ⊕ Not offered in 2024-2025 or the following year
 - Activity with requisites
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Course prerequisites

There are no prerequisites between course units (CUs) for this programme, i.e. the programme activity (course unit, CU) whose learning outcomes are to be certified and the corresponding credits awarded by the jury before registration in another CU.

The programme's courses and learning outcomes

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

SAIV2M - Information

Access Requirements

Master course admission requirements are defined by the French Community of Belgium Decree of 7 November 2013 defining the higher education landscape and the academic organisation of courses.

General and specific admission requirements for this programme must be satisfied at the time of enrolling at the university.

Unless explicitly mentioned, the bachelor's, master's and licentiate degrees listed in this table or on this page are to be understood as

Bachelier en sciences géographiques et/ou environnementales	Access based on application	See https://www.ilr1.uni-bonn.de/afepa/en
Bachelier en sciences sociales et/ou économiques	Access based on application	
Bachelier en sciences de l'ingénieur, orientation bioingénieur	Access based on application	
Bachelors of the Dutch speaking Community of Belgium		
Tout grade de bachelier en sciences sociales, économiques, agronomiques, géographiques et/ou environnementales	Access based on application	See https://www.ilr1.uni-bonn.de/afepa/en
Foreign Bachelors		
Tout grade de bachelier en sciences sociales, économiques, agronomiques, géographiques et/ou environnementales	Access based on application	See https://www.ilr1.uni-bonn.de/afepa/en

Non university Bachelors

> Find out more about [links](#) to the university

Diploma	Access	Remarks
BA en agronomie, orientation agro-industries et biotechnologies - crédits supplémentaires entre 30 et 45	Les enseignements supplémentaires éventuels peuvent être consultés dans le module complémentaire .	Type court
BA en agronomie, orientation agronomie des régions chaudes - crédits supplémentaires entre 30 et 45		
BA en agronomie, orientation environnement - crédits supplémentaires entre 30 et 45		
BA en agronomie, orientation forêt et nature - crédits supplémentaires entre 30 et 45		
BA en agronomie, orientation techniques et gestion agricoles - crédits supplémentaires entre 30 et 45		
BA en agronomie, orientation techniques et gestion horticoles - crédits supplémentaires entre 30 et 45		
BA en agronomie, orientation technologie animale - crédits supplémentaires entre 30 et 45		
BA en chimie, orientation biochimie - crédits supplémentaires entre 30 et 45		
BA en chimie, orientation biotechnologie - crédits supplémentaires entre 30 et 45		
BA en chimie, orientation chimie appliquée - crédits supplémentaires entre 30 et 45		
BA en chimie, orientation environnement - crédits supplémentaires entre 30 et 45		

Holders of a 2nd cycle University degree

Diploma	Special Requirements	Access	Remarks
"Licenciés"			

Masters

Tout grade de master en sciences sociales, agronomiques, économiques, géographiques et/ou environnementales	Access based on application	See https://www.ilr1.uni-bonn.de/afepa/en
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Holders of a non-University 2nd cycle degree

Aucune passerelle dans le cas de ce master.

Access based on validation of professional experience

> It is possible, under certain conditions, to use one's personal and professional experience to enter a university course without having the required qualifications. However, validation of prior experience does not automatically apply to all courses. Find out more about [Validation of prior experience](#).

Access based on application

Access based on application : access may be granted either directly or on the condition of completing additional courses of a maximum of 60 ECTS credits, or refused.

Admission and Enrolment Procedures for general registration

Evaluation

The evaluation methods comply with the [regulations concerning studies and exams](#). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

Students are assessed according to the activities in the programme : this can take the form of written and/or oral examinations as well as individual and/or group work.

Further details about how the assessment is done can be found in the course specifications.

Mobility and/or Internationalisation outlook

The master in Agriculture and Bio-industries is an interuniversity master.

Students registered in this Master's programme have the possibility to spend a study or research period at other institutions and may be able to integrate their academic credits earned into their academic curriculum at one of these partner institutions.

This master can lead to the issuance of the Master in Agriculture and Bio-industries together with the issuance of a second master from a partner university provided that a sufficient number of credits have been acquired in this university.

The master in Agriculture and Bio-industries develops:

- the ability to analyze agronomic problems
- the ability to understand different processes
- the ability to manage projects with other specialists.

At the end of this master, you will be able to find relevant, innovative and scientific solutions to help the development of products, process systems or services in this area of specialization.

Two professional focus are possible:

- Professional focus in soil sciences ([MISOL](#))
- Professional focus: Agricultural, Food and Environmental Analysis ([AFEPA](#))

Possible trainings at the end of the programme

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Possible trainings at the end of the programme

Successful completion of this Master's programme enables direct entry to other training programmes in the second and third cycles.

- Advanced Masters: the Advanced Masters in the field authorized by regulations in addition to those established by the University Development Commission (ARES-CCD) in the same field.
- Doctoral programmes: doctorate in Agronomic Science and Biological Engineering and other fields and universities subject to admission.

Contacts

For more information about this programme, please contact Professor Frédéric Gaspart at - frederic.gaspart@uclouvain.be

Curriculum Management

Faculty	
Structure entity	SST/AGRO
Denomination	Faculty of bioscience engineering (AGRO)
Sector	Sciences and Technology (SST)
Acronym	AGRO
Postal address	Croix du Sud 2 - bte L7.05.01 1348 Louvain-la-Neuve Tel: +32 (0) 10 47 37 19 - Fax: +32 (0) 10 47 47 45 http://www.uclouvain.be/agro
Website	
Mandate(s)	<ul style="list-style-type: none">• Dean : Christine Dupont• Administrative director : Carole Dekelver
Commission(s) of programme	<ul style="list-style-type: none">• Commission de programme - Master Bioingénieur-Sciences agronomiques (BIRA)• Commission de programme - Master Bioingénieur-Chimie et bioindustries (BIRC)• Commission de programme - Master Bioingénieur-Sciences & technologies de l'environnement (BIRE)• Commission de programme - Bachelier en sciences de l'ingénieur, orientation bioingénieur (CBIR)• Commission de programme interfacultaire en Sciences et gestion de l'environnement (ENVI)• Fermes universitaires de Louvain (FERM)
Academic supervisor:	Frédéric Gaspart
Other academic Supervisor(s)	<ul style="list-style-type: none">• Mathieu Javaux• Pierre Defourny
Jury	<ul style="list-style-type: none">• Président de jury: Quentin Ponette• Secrétaire: Sophie Opfergelt
Useful Contact(s)	<ul style="list-style-type: none">• Conseiller aux études: Pierre Bertin

